	Application No.	Applicant(s)
Notice of Allowability	10/795,943	MATSUMOTO, ATSUSHI
	Examiner	Art Unit
	Kan'' Datal	0004
	Kanji Patel	2624
" The MAILING DATE of this communication appr All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85; NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the commetter of the commetter appropriate commetter is the commetter of the commette	n this application. If not included unication will be mailed in due course. THIS
1. \square This communication is responsive to $\underline{3/8/04}$.		
2. The allowed claim(s) is/are <u>1-9</u> .		•
 3.		or (f).
2. Certified copies of the priority documents have	-	on No.
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	s Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
	•	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
,	Paper No	/Mail Date
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 3/8/04 	7. ⊠ Examiner's	Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's	Statement of Reasons for Allowance
· · · · · · · · · · · · · · · · · · ·	9. 🗌 Other	<u>_</u> ·

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims:

Claim 9, line 1, after "program" insert -- stored on a computer readable medium --.

DETAILED ACTION

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

3. Information Disclosure Statement submitted on 3/8/04 has been considered by the examiner.

Drawings

4. Drawings filed 3/8/04 have been approved by the examiner.

Allowable Subject Matter

5. The following is an examiner's statement of reasons for allowance:

Claims 1-9 are allowed.

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The present invention is directed to data interpolation for an image reading apparatus. Each independent claim identifies the uniquely distinct features of " a degree-of-correlation detecting portion for detecting the degree of correlation of a plurality of pixel data situated in the vicinity of the defective pixel, a filter-size selecting portion for selecting a filter size according to a result of detection provided by said degree-of-correlation detecting portion and an interpolation-data computing portion for computing the interpolation data by performing a filtering operation on a plurality of pixel data situated in the vicinity of the defective pixel according to the filter size selected by said filter-size selecting portion". The closest prior art to Weldy et al. (US 6,188,804 B1), Gindele et al. (US 6,934,056 B2) and Nakamura (US 6,628,848 B1) disclose a reconstructing missing pixel information to provide a full output image, a noise cleaning and interpolating sparsely populated color digital image using a variable noise cleaning kernel and an image reading apparatus, respectively, but either singularly or in combination, fail to anticipate or render the above limitations obvious.

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6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Other prior art cited

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shezaf et al. (US 6,832,009 B1) disclose a method and apparatus for improved image interpolation.

Gindele et al. (US 6,625,325 B2) disclose a noise cleaning and interpolating sparsely populated color digital image using a variable noise-cleaning kernel.

Fukushima et al. (US 5,570,436) disclose a method for interpolating and an apparatus employing the method.

Wohlstadter et al. (US 6,977,722 B2) disclose an assay plates, reader systems and methods for luminance test measurements.

Yamashita et al. (US 5,513,281) disclose an interpolation method and apparatus by correlation detection using fuzzy inference.

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Contact Information

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8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kanji Patel whose telephone number is (571) 272-7454.

The examiner can normally be reached on Monday to Thursday from 8 a.m. to 6:30

p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bella, Matthew can be reached on (571) 272-7778. The fax phone number

for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kanji Patel Art Unit 2624 12/09/06

KANJIBHAI PATEL
PRIMARY EXAMINER